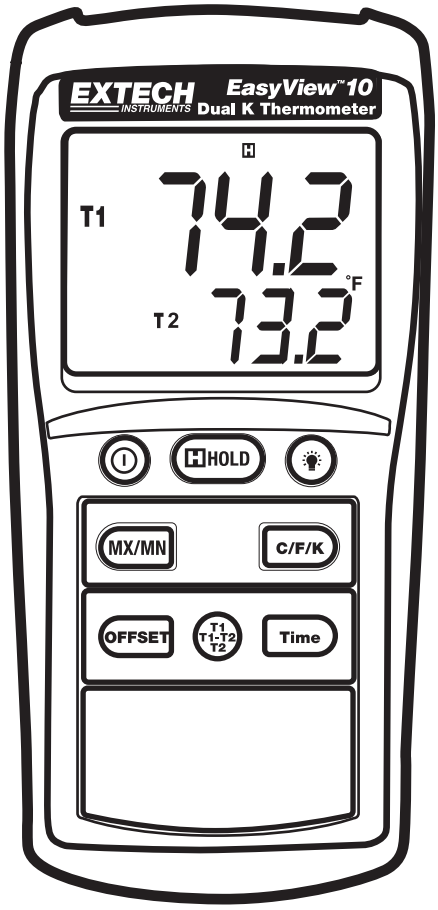
User's Guide

EXTECH INSTRUMENTS

EasyView Dual K Thermometer

Model EA10



Warranty

EXTECH INSTRUMENTS CORPORATION warrants this instrument to be free of defects in parts and workmanship for one year from date of shipment (a six month limited warranty applies on sensors and cables). If it should become necessary to return the instrument for service during or beyond the warranty period, contact the Customer Service Department at (781) 890-7440 ext. 210 for authorization or visit our website at www.extech.com (click on 'Contact Extech' and go to 'Service Department' to request an RA number). A Return Authorization (RA) number must be issued before any product is returned to Extech. The sender is responsible for shipping charges, freight, insurance and proper packaging to prevent damage in transit. This warranty does not apply to defects resulting from action of the user such as misuse, improper wiring, operation outside of specification, improper maintenance or repair, or unauthorized modification. Extech specifically disclaims any implied warranties or merchantability or fitness for a specific purpose and will not be liable for any direct, indirect, incidental or consequential damages. Extech's total liability is limited to repair or replacement of the product. The warranty set forth above is inclusive and no other warranty, whether written or oral, is expressed or implied.

Introduction

Congratulations on your purchase of the Extech EasyView Dual K Thermometer. This device offers dual thermocouple inputs with multifunction LCD display. This meter is shipped fully tested and calibrated and, with proper use, will provide years of reliable service.

Specifications

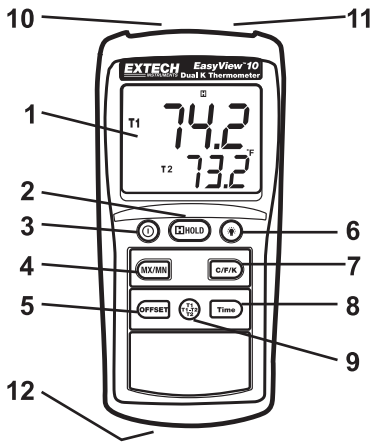
Measurement Range	-200 to 1999°F (-200 to 1360°C)
Resolution	0.1°C/°F <200° , 1°C/°F ≥200°
Accuracy (@23 ± 5°C)	±(0.3% reading + 2°F) @ -200°F to 1832°F
	±(0.5% reading + 2°F) @ 1832°F to 1999°F
	±(0.3% reading + 5°C) @ -200°C to -93°C
	±(0.3% reading + 1°C) @ -93°C to 1000°C
	±(0.5% reading + 1°C) @ 1000°C to 1360°C
Temperature Coefficient	0.1 times the applicable accuracy specifications per °C from 0°C to 18°C and 28°C to 50°C (32°F to 64°F and 82°F to 122°F)
Note: Temperature accuracy does not include the accuracy of the type K probe.	
Note: The temperature scale is based on the international temperature scale of 1990 (ITS90).	

General Specifications

Display	Dual Display Multi-function LCD with Backlight
Input Protection	60VDC; 24VAC rms
Display Update Rate	1 per second
Over range indication	"OL" appears on the LCD
Open input indication	"OL" appears on the LCD
Low battery indication	"BT" appears on the LCD
Power supply	6 AAA Batteries
Battery life	Approximately 200 hours with carbon zinc batteries
Operating Temperature	32 to 122°F (0 to 50°C)
Operating Humidity	< 80% RH
Storage Temperature	14 to 140°F (-10 to 60°C)
Storage Humidity	10 to 80% RH
Dimensions	5.91x2.8x1.4" (150x72x35mm)
Weight	Approx. 8.29 oz. (235g) with battery

Meter Description

1. LCD display
2. Data HOLD button
3. Power button
4. Max/Min button
5. OFFSET button
6. Backlite button
7. C/F/K units select button
8. Elapsed TIME button
9. T1 or T1-T2 or T2 display select button
10. T1 Thermocouple input socket
11. T2 Thermocouple input socket
12. Battery compartment (rear)



Operation

Connecting thermocouples

1. This meter accepts two type K thermocouples with spade plugs (sub-miniature type with one spade wider than the other).
2. Plug the thermocouple(s) into the meter's T1 and/or T2 thermocouple input jack(s).

Turn Power ON

1. Press the ⏻ button to turn power on. The meter will perform a short self-test.
2. If a probe is not inserted to the meter, an “OL” indication will appear on the display.

Selecting °C, °F or °K units of measure

Press the **C/F/K** button to select the desired temperature unit of measure.

Selecting T1, T2, and T1-T2 Displays

Press the **T1 T2 T1-T2** button to step through and select a display of:

a. T1 (thermocouple 1) displays in the upper large display and T2 (thermocouple 2) temp. displays in the lower small display.
b. T1 plus T2
c. T1-T2 plus T1
d. T1-T2 plus T2

MIN, MAX, AVG Recording Function with Timer

Press the **MX/MN** button to begin capturing the Minimum (MN), Maximum (MX), and Average (AVG) temperature values. The Elapsed Time clock will appear on the lower left of the display and the lower display will indicate the MAXIMUM (MX) value captured since the MX/MN button was pressed.

Press the **MX/MN** button to change the lower display to reflect the stored MX to MN and then AVG value of the input selected in the upper display (T1, T2 or T1-T2). Each reading will be accompanied by a Timer value indicating the time when each reading was recorded.

Press the **Time** button to change the elapsed time format from min:sec to hour:min.

Press and Hold the MX/MN button until the display returns to standard operation to exit the MX/MN function.

Data Hold

Press the **HOLD** button to freeze the reading in the display. The 'H' hold icon will appear on the upper left-hand side of the display. Press the HOLD button again to return to normal operation (the 'H' hold icon will disappear).

Offset

The Offset Mode permits the user to store the temperature reading as a reference value and compare this reference value to subsequent temperature readings. In Offset mode, the meter displays the actual measured temperature minus the stored reference value.

Press the **OFFSET** button to store the currently displayed temperature readings and enter the Offset mode. “OFFSET” will appear in the display.

Press the OFFSET button to exit the mode.

Backlight

Press the ✳ backlight button to turn on the LCD display backlight. The backlight will automatically turn off after one minute or press the button again to turn the light off.

Auto Power OFF

The meter will automatically turn off after 30 minutes if no keys are pressed during this period. Auto power off is disabled in the max/min recording mode.

Turning Power OFF

Press the ⏻ button to turn power off.

Calibration and Repair Services

Extech offers complete repair and calibration services for all of the products we sell. For periodic calibration, NIST certification or repair of this Extech product, call customer service for details on services available. Extech recommends that calibration be performed on an annual basis to ensure calibration integrity.

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Support line (781) 890-7440

Technical support: Extension 200; E-mail: support@extech.com

Repair & Returns: Extension 210; E-mail: repair@extech.com

Product specifications subject to change without notice

For the latest version of this User’s Guide, Software updates, and other up-to-the-minute product information, visit our website: www.extech.com

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